

Citizen Lake Monitoring Network- Satellite Schedule

Once again, we are asking for your assistance in collecting water clarity data on your lake. This information helps us estimate water clarity for thousands of lakes in Wisconsin from satellite images. This activity began in 1999 when the University of Wisconsin-Madison conducted a satellite study and discovered they could measure water clarity for over 8,000 lakes using a satellite image model calibrated for a small subset of lakes in the same field of view. After the university completed its study, the Wisconsin Department of Natural Resources took over the job of analyzing the satellite images on an ongoing basis. We currently use data from the Landsat 7 and Landsat 8 satellites.



Landsat satellite
[USGS Landsat Site](https://landsat.usgs.gov/)

If you monitor your lake on a sunny day when the satellite acquires an image, you are helping to monitor hundreds of lakes around your lake that might not have a volunteer. Without volunteers, we could not successfully use satellite images to retrieve water clarity data. We must calibrate the model with on-the-ground water clarity measurements for every single satellite image and we simply do not have the resources to collect these measurements without the continued support of you, the Citizen Lake Monitoring Network volunteers.

To participate:

If you know your satellite path from last year, you are all set. If you do not know which path your lake is in, look on the “Satellite Path” handout included in this packet or on the [Remote Sensing - Satellite Paths](#) webpages. Use the “Satellite Schedule” on this page or listed below to see the dates when one of the satellites will be overhead. We encourage you to monitor on as many of these dates for your path as you can and to concentrate on the Landsat 8 image acquisition dates shown in **bold print** if you have limited time. Clouds may obscure your lake on a satellite image and we will evaluate every single satellite image to see if it is possible to use your data to retrieve the water clarity. You do not need to do anything extra when reporting your data.

We greatly appreciate your help! Thank you!

Landsat 7 and 8 Satellite Schedule

Path 26	Path 25	Path 24	Path 23
05/07/2020	05/08/2020	05/09/2020	05/10/2020
05/15/2020	05/16/2020	05/17/2020	05/18/2020
05/23/2020	05/24/2020	05/25/2020	05/26/2020
05/31/2020	06/01/2020	06/02/2020	06/03/2020
06/08/2020	06/09/2020	06/10/2020	06/11/2020
06/16/2020	06/17/2020	06/18/2020	06/19/2020
06/24/2020	06/25/2020	06/26/2020	06/27/2020
07/02/2020	07/03/2020	07/04/2020	07/05/2020
07/10/2020	07/11/2020	07/12/2020	07/13/2020
07/18/2020	07/19/2020	07/20/2020	07/21/2020
07/26/2020	07/27/2020	07/28/2020	07/29/2020
08/03/2020	08/04/2020	08/05/2020	08/06/2020
08/11/2020	08/12/2020	08/13/2020	08/14/2020
08/19/2020	08/20/2020	08/21/2020	08/22/2020
08/27/2020	08/28/2020	08/29/2020	08/30/2020
09/04/2020	09/05/2020	09/06/2020	09/07/2020
09/12/2020	09/13/2020	09/14/2020	09/15/2020
09/20/2020	09/21/2020	09/22/2020	09/23/2020
09/28/2020	09/29/2020	09/30/2020	10/01/2020
10/06/2020	10/07/2020	10/08/2020	10/09/2020

To learn more, visit our [Remote sensing of water quality](#) webpages!

The satellite water clarity map and data are available through the DNR's [Lakes and Aquatic Invasive Species \(AIS\) Mapping Tool](#).